

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18 Stylesheet Version v18.0

> Title of Invention

CONTACT PIN FOR EXHAUST GAS SENSOR

Application Number:

10/610479

Confirmation Number:

9343

First Named Applicant:

Ken France Attorney Docket Number: 081276912100

Art Unit:

2856

Examiner:

Not Yet Known

Search string:

(2879583 or 3007810 or 3574033 or 3916071 or 4001758 or 4107018 or 4127424 or 4130797 or 4133910 or 4155827 or 4212720 or 4264647 or 4296148 or 4305803 or 4310401 or 4338362 or 4339320 or 4413502 or 4419212 or 4490411 or 4504522 or 4540479 or 4595614 or 4597850 or 4773376 or 4943330 or 5017340 or 5032568 or 5096734 or 5139639 or 5169513 or 5329806 or 5346605 or 5372775 or 5423972 or 5522979 or 5546787 or 5573650 or 5670032 or 5711863 or 5736095 or 5739414 or 5780100 or 5817920 or 5846391 or 5886248 or 5900129 or 5922938 or 5935399 or 5942092 or 5948225 or 5955656 or 6063249 or 6068746 or 6074694 or 6082175 or 6096372 or 6164120 or 6206377 or 6266997 or 6273432 or 6319376 or 6342141 or

6408680).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

	init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
-	ł.	1	2879583	1959-03-31	Booth, et al.]		
		2	3007810	1961-11-07	Hobrock]		
		3	3574033	1971-04-06	Kolkman, et al.]	-	
		4	3916071	1975-10-28	Kinnebrew, et al.]	-	
ľ		5	4001758	1977-01-04	Esper, et al.] -	_	_
		6	4107018	1978-08-15	Bode, et al.] _	_	

						Class	Subclass
4	$\overline{\sim}$	7	4127424	1978-11-28	Ullery, Jr.		
		8	4130797	1978-12-19	Hattori, et al.		
ľ		9	4133910	1979-01-09	Ruwe, et al.		
		10	4155827	1979-05-22	Maurer, et al.		
		11 .	4212720	1980-07-15	Maurer, et al.	•	
		12	4264647	1981-04-28	Trevorrow		_
		13	4296148	1981-10-20	Friese		
		14	4305803	1981-12-15	Beyer, et al.		_
		15	4310401	1982-01-12	Stahl	←	
	·	16	4338362	1982-07-06	Turcotte .		_
		17	4339320	1982-07-13	Friese, et al.	_	
		18	4413502	1983-11-08	Ohta, et al.	_	
		19	4419212	1983-12-06	Dietz, et al.		-
		20	4490411	1984-12-25	Feder	*******	
		21	4504522	1985-03-12	Kaiser, et al.	-	
		22	4540479	1985-09-10	Sakurai, et al.		
		23	4595614	1986-06-17	Nunlist		
4		24	4597850	1986-07-01	Takahasi, et al.		
		25	4773376	1988-09-27	Uchikawa, et al.		_
		26	4943330	1990-07-24	lino, et al.		_
إ		27	5017340	1991-05-21	Pribat, et al.		
		28	5032568	1991-07-16	Lau, et al.		
Į		29	5096734	1992-03-17	Nikulainen, et al.		
Į		30	5139639	1992-08-18	Holleboom		
Į		31	5169513	1992-12-08	Mase, et al.	_	
	_	32	5329806	1994-07-19	McClanahan, et al.		
Ļ	_	33	5346605	1994-09-13	Wolcott, et al.		
	_	34	5372775	1994-12-13	Hayashi, et al.		
		35	5423972	1995-06-13	Mann, et al.		
Ļ		36	5522979	1996-06-04	Tatumoto, et al.		_
Ļ		37	5546787	1996-08-20	Hafele, et al.	,	
إ		38	5573650	1996-11-12	Fukaya, et al.		
إ		39	5670032	1997-09-23	Friese, et al.	·	
ļ		40	5711863	1998-01-27	Henkelmann, et al.		_
إ	_	41	5736095	1998-04-07	Shimada, et al.	•	_
쌰	کے	42	5739414	1998-04-14	Paulus, et al.		
H	I	ı İ	i I	II .	ı	l	1

. In						Class	Subclass
#	1-1	43	5780100	1998-07-14	McCabe, et al.		
#		44	5817920	1998-10-06	Kuisell, et al.		
∦		45	5846391	1998-12-08	Friese, et al.] —	
		46	5886248	1999-03-23	Paulus, et al.	.—.	
		47	5900129	1999-05-04	Tsuji, et al.]	
		48	5922938	1999-07-13	Hafele] —	
		49	5935399	1999-08-10	Tanaka, et al.		
		50	5942092	1999-08-24	Weyl, et al.	_	
		51	5948225	1999-09-07	Katafuchi, et al.		
		52	5955656	1999-09-21	Graser, et al.		
		53	6063249	2000-05-16	Duce, et al.		
		54	6068746	2000-05-30	Kojima, et al.		
		55	6074694	2000-06-13	Friese, et al.		
		56	6082175	2000-07-04	Yoshikawa, et al.	_	-
		57	6096372	2000-08-01	Nomura, et al.		
		58	6164120	2000-12-26	Friese, et al.		
ı		59	6206377	2001-03-27	Weyl		
		60	6266997	2001-07-31	Nelson		
		61	6273432	2001-08-14	Weyl, et al.		
		62	6319376	2001-11-20	Graser, et al.		
$\ $		63	6342141	2002-01-29	Nelson		
#	4	64	6408680	2002-06-25	Friese, et al.	<u> </u>	

Remarks

Note: Remarks are not for responding to an office action.

Citation of these references is respectfully requested. No concession is made that these documents are prior art, and Applicant expressly reserves the right to antedate the documents as may be appropriate.

Signature

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			01 0011DF	Applicati n Number	10/610,479		
••			CLOSURE	Filing Date	June 30, 2003		
STA	TEMENT I	BY AI	PPLICANT	First Named Inventor	Ken France		
	•			Group Art Unit			
	(use as many sh	eets es r	necessary)	Examiner Name			
Sheet	1	of	1	Attorney Docket Number	081276-9121-00		

				U.S. PATENT DOC	JMENTS	
Examiner Initials*	Cite No.1	U.S. Patent Document Kind Code ² (If known)		Name of Patentee or Applicant	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Unes, Where Relevant Passages or Relevant Figures Appear
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		See 1	,2 in Addend	lum			
Du		DE	19614147	A	Friesc et al	06/2000	
500		JP	52-94195	A	Kazuo ct al.	08/1977	
On		JP	57-182158	A	Kazuya et al. "	11/1982	1
Sur		JP	61-79677	A	Toshiki	04/1986	
0~		JP	62 - <i>53765</i>	A	Takeo et al.	03/1987	-
m		JP	5-64762	A	Shinichi et al.	03/1993	
Dn		TP	9-26034	A	Nobuyuki	01/1997	-
Den		JP	9-75810	A	Takeshi	03/1997	
Da		JP	9-72876	A	Hironi et al.	06/1998	1
Da		WO	62644	A	Harada et al.	09/1999	
Exami Signat) []	.7	a 1 *	Date Considered / 8	In 2004

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Substitut	te for form 1449B	VPTO		Compl t if Known				
	•	-		Applicati n Number	10/610,479			
INFO	ORMATI	ON DISC	CLOSURE	Filing Date	June 30, 2003			
STA	TEMEN'	TRYA	PPLICANT	First Nam d Inv nt r	Ken France			
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Sheet	1	of	1	Attorney Docket Number	081276-9121-00			

OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS								
Examiner Initials	Cite No.1	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2					
Du	-	Description of Prior Art Sensors Shown in Photos; 4 pages						
\mathcal{M}		SAE International; Surface Vehicle Standard; SAE J548-1 for spark plugs; July, 1996; Pages 1-18; Warrendale, PA						
Du		Unpublished, pending U.S. Patent Application No. 10/274,305 filed October 18, 2002						
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